



Dolan Chemical Laboratory
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Water Analysis

Location: Mountaineer Plant

Report Date: 12/19/2012

1st Stage Feed

Sample Number: 125288-001 **Date Collected: 12/12/2012 08:00** **Date Received: 12/12/2012**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	24.1	ug/L		0.1	0.03	DPC	12/17/2012 13:14	EPA 200.8
Beryllium, Be	< 0.1	ug/L	U	0.5	0.1	DAM	12/18/2012 15:57	EPA 200.7
Selenium, Se	424	ug/L		0.5	0.2	DPC	12/17/2012 13:14	EPA 200.8
Aluminum, Al	0.0740	mg/L		0.001	0.0003	DPC	12/17/2012 13:14	EPA 200.8
Boron, B	192	mg/L		0.02	0.004	DAM	12/18/2012	EPA 200.7
Iron, Fe	0.209	mg/L		0.05	0.01	DAM	12/18/2012 15:57	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	3.58	mg/L		0.5	0.1	DMM	12/17/2012	EPA 351.2
Nitrate-Nitrite, NO3-NO2, as N	14.6	mg/L		0.1	0.02	DMM	12/14/2012	SM20 4500NO3 H
Phosphorus, Total, P	0.14	mg/L		0.05	0.01	DMM	12/17/2012	EPA 365.4
Residue, Filterable, TDS	11900	mg/L		20	6	MSO	12/14/2012	SM20 2540C
Sulfate, SO4	5350	mg/L		50	20	TDF	12/14/2012 18:00	EPA 300.1

2nd Stage Feed

Sample Number: 125288-002 **Date Collected: 12/12/2012 08:00** **Date Received: 12/12/2012**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	20.8	ug/L		0.1	0.03	DPC	12/17/2012 13:18	EPA 200.8
Beryllium, Be	< 0.1	ug/L	U	0.5	0.1	DAM	12/18/2012 16:04	EPA 200.7
Selenium, Se	6.4	ug/L		0.5	0.2	DPC	12/17/2012 13:18	EPA 200.8
Aluminum, Al	1.32	mg/L		0.001	0.0003	DPC	12/17/2012 13:18	EPA 200.8
Boron, B	182	mg/L		0.02	0.004	DAM	12/18/2012	EPA 200.7
Iron, Fe	3.11	mg/L		0.05	0.01	DAM	12/18/2012 16:04	EPA 200.7

Bioreactor Effluent

Sample Number: 125288-003


Date Collected: 12/12/2012 08:00

Date Received: 12/12/2012

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	3.57	ug/L		0.1	0.03	DPC	12/17/2012 13:23	EPA 200.8
Beryllium, Be	< 0.1	ug/L	U	0.5	0.1	DAM	12/18/2012 16:12	EPA 200.7
Selenium, Se	1.5	ug/L		0.5	0.2	DPC	12/17/2012 13:23	EPA 200.8
Aluminum, Al	0.352	mg/L		0.001	0.0003	DPC	12/17/2012 13:23	EPA 200.8
Boron, B	177	mg/L		0.02	0.004	DAM	12/18/2012	EPA 200.7
Iron, Fe	0.760	mg/L		0.05	0.01	DAM	12/18/2012 16:12	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	3.72	mg/L		0.5	0.1	DMM	12/17/2012	EPA 351.2
Nitrate-Nitrite, NO3-NO2, as N	< 0.02	mg/L	U	0.1	0.02	DMM	12/14/2012	SM20 4500NO3 H
Phosphorus, Total, P	0.18	mg/L		0.05	0.01	DMM	12/17/2012	EPA 365.4
Residue, Filterable, TDS	11400	mg/L		20	6	MSO	12/14/2012	SM20 2540C
Sulfate, SO4	5310	mg/L		50	20	TDF	12/14/2012 18:19	EPA 300.1

U: Analyte was analyzed and not detected at or above adjusted Method Detection Limit

J: Analyte was positively identified, though the quantitation was below Reporting Limit.



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THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF THE LABORATORY. ALL TEST RESULTS MEET ALL OF THE REQUIREMENTS OF THE ACCREDITING AUTHORITY, UNLESS OTHERWISE NOTED.